Enhanced Position Location Reporting System (EPLRS)

DESCRIPTION

The Enhanced Position Location Reporting System (EPLRS) provides Marine Forces with a critical command, control, and situational awareness tactical data distribution network that does not currently exist. EPLRS links the dynamic MAGTF C4I tactical data system architecture with a robust, user-transparent, automatic relaying, and automatic rerouting communications network. The end product is communications connectivity to support a flexible, seamless, and integrated MAGTF C4I tactical data architecture. Packet radio technology employed within a Time Division Multiple Access (TDMA) scheme provides secure, jam-resistant, and self-healing data distribution. EPLRS provides for data transfer during unit maneuver and mobile command post operations. The system will be fielded to infantry, artillery, light armored vehicle (LAV), tank, and mobile command units.

EPLRS will be the primary entry node for sensor collected information from forward deployed units for transmission to higher headquarters; this type connectivity is not currently available.

The EPLRS system is being fielded to the U.S. Army as their tactical data distribution network, thus, data connectivity between Army and Marine Forces will be made easier when operating in a Joint environment. The Air Force is incorporating EPLRS in their Situational Awareness Data Link (SADL) program. This link provides both F-16 and A-10 aircraft the ability to see friendly EPLRS equipped forces on the ground as well as providing a data link between aircraft. The U.S. Navy is employing EPLRS as part of its KSQ-1 program. This functionality supports Marine Forces during amphibious operations.

The primary EPLRS system components are a Downsized Enhanced Net Control Station (NCS-E(D)) and Enhanced PLRS Radio Sets (RS). The NCS-E(D) provides control, timing, monitor, and cryptographic variable generation and update for the EPLRS network.

PROCUREMENT PROFILE:	FY00	FY01
Quantity: RS	*320*	*0*
NCS	*0*	*0*

OPERATIONAL IMPACT

EPLRS provides mission critical data (common tactical picture and sensor to shooter information) distribution during unit maneuver and mobile command post operations. This type of connectivity (Regiment and below) is not currently available. EPLRS links the MAGTF C4I TDS architecture with a robust, user-transparent, automatic relaying, and automatic rerouting communications network. It acts as the primary entry node for sensor collected information from forward-deployed units for transmission to higher headquarters. EPLRS will be fielded to infantry, artillery, LAV, tank, and mobile command units.

PROGRAM STATUS

The Army as lead service, issued a successful Milestone III and fielding decision in February 1997. The Marine Corps conducted a successful Operational Assessment involving Tactical Data Network (TDN) servers and various host equipment (TCO, IAS, Banyan Client PC's) in FY99. A fielding decision is scheduled for early FY00 with.IOC in FY00.

DEVELOPER/ MANUFACTURER

Raytheon